System Requirements

SuccessMaker® Release 1.0

PEARSON

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1 Overview

The Pearson SuccessMaker product is an innovative approach to courseware that provides standards-aligned content and reporting, student activity assignment by objective, and content leveling based on current grade-specific pedagogy.

The SuccessMaker instructional platform allows flexible deployment configurations to meet the needs of districts and schools regardless of their size and infrastructure. Its scalable configurations enable you to augment your initial investment with additional functionality as your schools evolve and grow.

The SuccessMaker curriculum aligns with national and state standards. It focuses on curriculum for reading grades K through 5 and math grades K through 8.

This document describes the deployment configurations that are supported by SuccessMaker Version 1.0 and the system requirements needed to support those configurations.

Based on current hardware and software technologies, Pearson has determined that the system requirements listed in this document will deliver acceptable operation and performance. Your site's actual performance may vary due to different configurations, including the following:

- Server application load
- Available network bandwidth
- Client security configuration
- Number of concurrent users
- Courseware usage
- Other variables

Technology advances and changes can significantly impact system requirements. If you have questions regarding the suitability of your specific computing environment, contact your Pearson Sales Representative or Technical Specialist.

Stand-alone Configuration

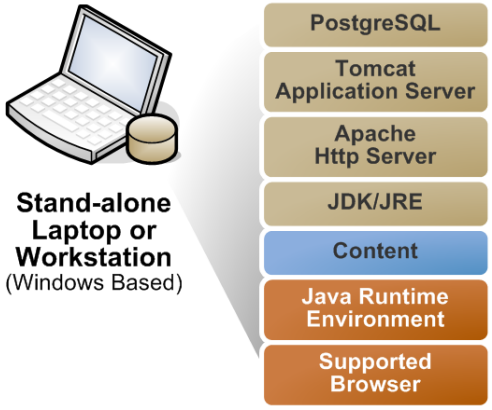
The Stand-alone Configuration provides the capability for one Windows-based workstation to act as the client and the server at the same time.

Stand-alone Requirements

The Stand-alone Configuration supports:

- All users sharing the same Windows-based workstation
- Storing student data on the local hard disk drive
- Accessible courseware content from the local hard disk drive

Figure 1. Stand-alone Configuration



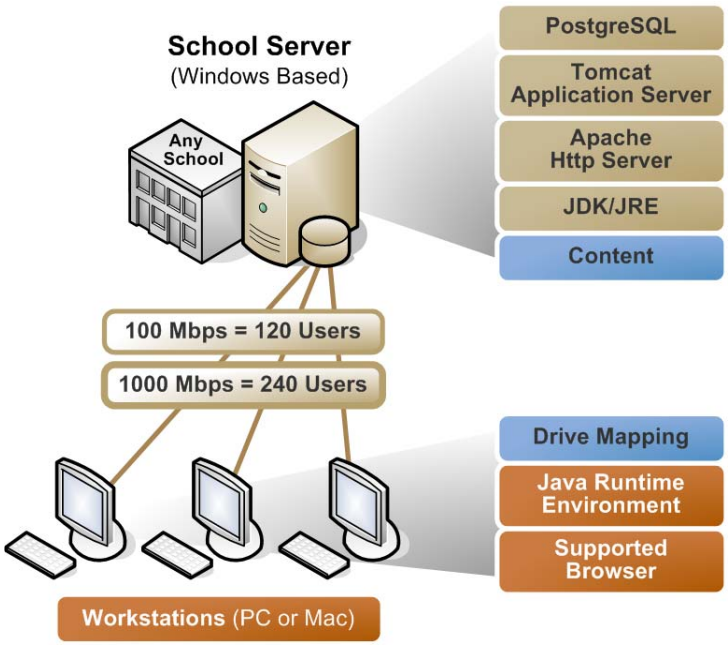
School Configuration

The School Configuration is the standard model for SMR1. In this configuration, the workstations require a drive mapping to the content share, a Java Runtime environment and a supported browser to run the SuccessMaker product. Once implemented, the School Configuration can stand on its own or be a part of an Aggregate Configuration.

The School Configuration supports:

- A maximum of 240 concurrent users per application server
- A server on a local area network or wide area network, bandwidth permitting
- Management system functionality
- Student performance data is stored on the server
- Courseware content is accessible via a content server mapped drive

Figure 2. School Configuration



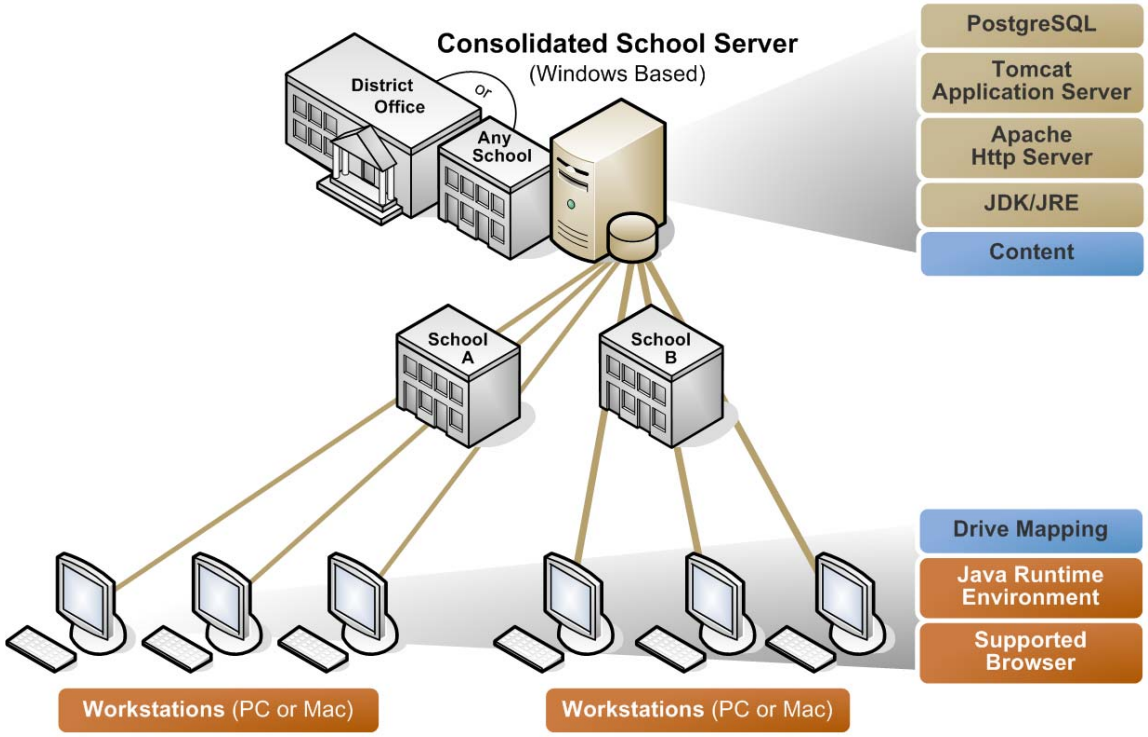
Consolidated School Configuration

The Consolidated School Configuration is designed for customers with a 100 MB bandwidth or greater connection between their workstations and the server. Once implemented, the Consolidated School Configuration can stand on its own or be a part of a District Aggregate Configuration.

The Consolidated School Configuration supports:

- Multiple schools on a single server
- Student and license transfer between schools
- A maximum of 240 concurrent users per application server
- A server on a local area network or wide area network, bandwidth permitting
- Management system functionality
- Storing student performance data on the server
- Accessible courseware content via a content server mapped drive

Figure 3. Consolidated School Configuration



Aggregate Reporting Configuration

The Aggregate Reporting Configuration requires at least two school or consolidated school configurations. This arrangement provides the capability for customers to meet the latest information and accountability demands.

This Aggregate Reporting Configuration supports:

- District-wide data collection
- District-wide reporting
- Product license transfer from school to school
- Student data transfer from school to school

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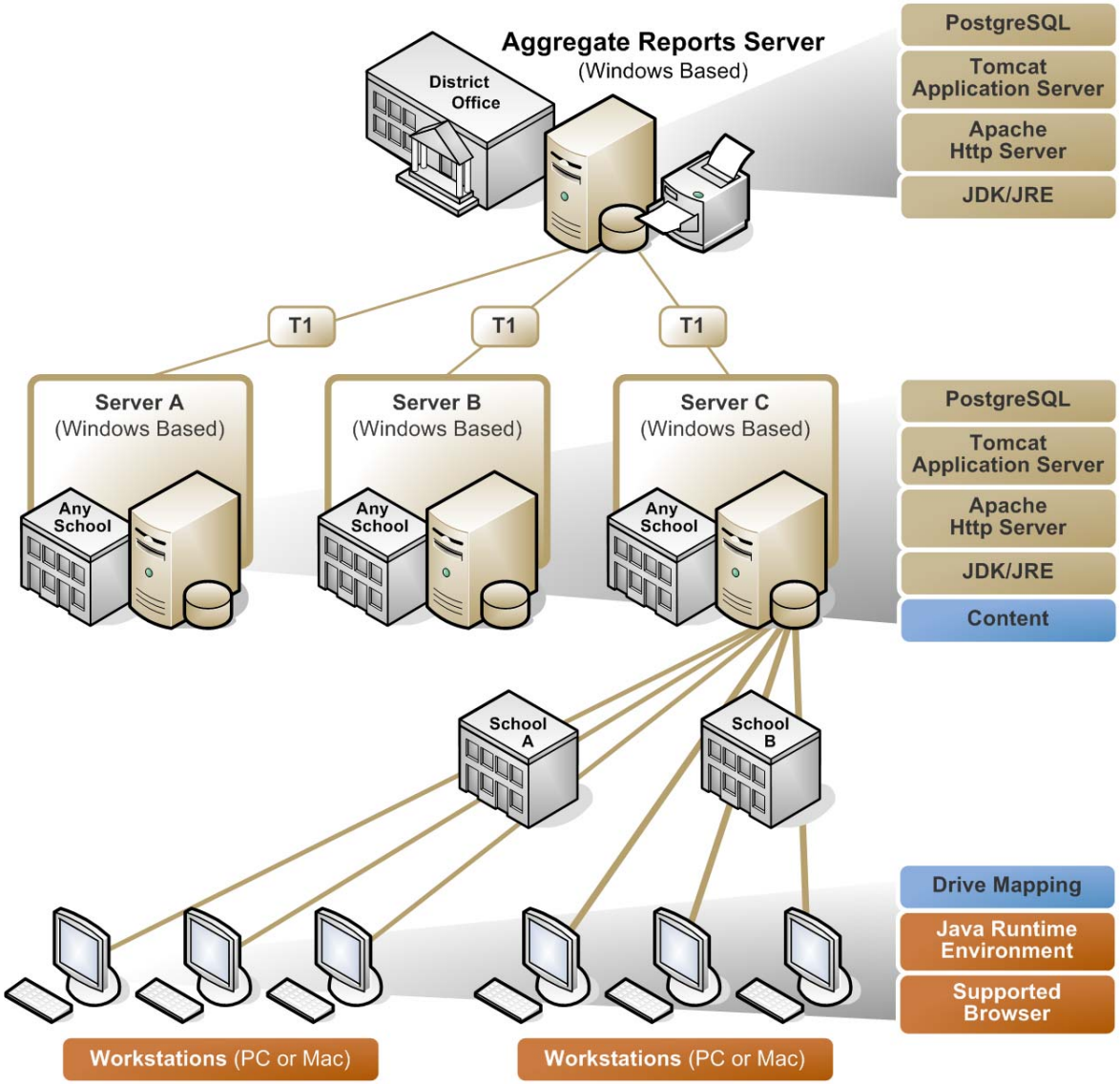
Figure 4. Aggregate Reporting Configuration



Automatic Updates

The SuccessMaker application provides automatic updating capabilities by using Pearson Management and Monitoring Application (MAMA) technology. These capabilities include automatic updates of courseware content, the Learning Management System (LMS), and state standards.

Client Workstation Requirements

End users access and interact with the SuccessMaker application using client workstations in classrooms and labs. The end users include students, teachers and administrators.

The client workstation requires:

- A supported web browser
- A supported java applet within a browser

The client workstation also can be used to deploy the SuccessMaker application in a stand-alone configuration. In the stand-alone configuration, the workstation is required to run both of the previously listed applications, plus the following:

- Apache Tomcat
- Java JDK/JRE for LMS services
- PostgreSQL
- Pearson MAMA client
- Apache HTTP server
- Pearson LMS

2 System Requirements

This chapter describes the platforms that are certified to run the SuccessMaker software.

Based on the configuration chosen and expected usage patterns, your solution may necessitate hardware requirements in excess of the minimum necessary to operate SuccessMaker.

PC Client Workstation Requirements

These specifications are intended strictly as a guideline. They were developed in an environment free from network congestion, resource contention, and aggressive security measures.

Consider the minimum requirements applicable only if your workstations use a minimally configured and supported operating system, a minimally configured virus scanner, and only this Pearson application.

PC Platform	Minimum Requirements	Recommended
Desktop Operating System:		
• Windows 2000 Professional SP4 • Windows XP Home SP2 • Windows XP Professional SP2	**Processor:** Pentium 4 @ 2 GHz **Memory**: 1 GB **Storage:** 1 GB**	**Processor:** Pentium D @ 3 GHz **Memory**: 2 GB **Storage:** 1 GB**
• Windows Vista*	**Processor:** Pentium 4 @ 2 GHz **Memory**: 2 GB **Storage:** 1 GB**	**Processor**: Pentium D @ 3 GHz **Memory:** 4 GB **Storage:** 2 GB**
Monitor Resolution	1024 x 768 thousands of colors	
Audio	Any Creative Labs or 100% compatible sound card	
Network Protocol	TCP/IP	
Microphone (Fluency Recording)	• Koss CS100 stereo headphones with integrated microphone or comparable • Califone 3066AV or 3066-USB deluxe multimedia stereo headset with integrated microphone • A microphone with an external volume control is recommended	
Internet Browser	• Microsoft Internet Explorer 6 with Service Pack 2 • Microsoft Internet Explorer 7	
Additional Software	Adobe Acrobat Reader 8 and JRE 1.5.x or 1.6.x	
Printer	Any inkjet or laser printer supported by the operating system (color optional)	

NOTES:

* OS requires 15 GB free space

** For a stand-alone workstation, the hard disk drive requirement is 20 GB

Macintosh Client Workstation Requirements

These specifications are intended strictly as a guideline. They were developed in an environment free from network congestion, resource contention, and aggressive security measures.

Consider the minimum requirements applicable only if your workstations use a minimally configured and supported operating system, a minimally configured virus scanner, and only this Pearson application.

Mac Platform	Minimum Requirements	Recommended
Desktop Operating System:		
• OS 10.4.x***** • OS 10.5.x*****	***Power PC*** **Processor:** G4 @ 1 GHz **Memory:** 1 GB **Storage:** 1 GB ***Intel Core*** **Minimum Processor Speed:** 1.5 GHz **Memory:** 1 GB **Storage:** 1 GB	***Power PC*** **Processor:** G5 @ 2 GHz **Memory:** 2 GB **Storage:** 1 GB ***Intel Core*** **Minimum Processor Speed:** 2 GHz **Memory:** 2 GB **Storage:** 1 GB
Monitor Resolution	1024 x 768 thousands of colors	
Audio	Built-in	
Network Protocol	TCP/IP	
Microphone (Fluency Recording)	• Koss CS100 stereo headphones with integrated microphone or comparable • Califone 3066-USB deluxe multimedia stereo headset with integrated microphone • Griffin iMic USB audio adapter to plug in the standard headset with microphone • Microphone with an external volume control is recommended	
Internet Browser	• Safari 2.x or 3.x for 10.4.x • Safari 3.x for 10.5.x	
Additional Software	JRE 1.5.x or 1.6.x	
Printer	Any inkjet or laser printer supported by the operating system (color optional)	
NOTE: * Version 1.0 does not support a Mac stand-alone		

School and Consolidated School Requirements

The server for the School and Consolidated School configurations runs the LMS application and is used to serve the course content.

School and Consolidated School Configuration Requirements

These specifications are intended strictly as a guideline. They were developed in an environment free from network congestion, resource contention, and aggressive security measures.

Network Bandwidth Requirements		
Bandwidth	**100 MB**	**1000 GB**
Maximum concurrent student licenses supported	120	240

Network Platform	Minimum Requirements	Recommended
Server Operating System:		
• Microsoft Windows 2000 Server SP4* • Microsoft Windows 2003 Server SP1* • Microsoft Windows 2003 Server R2* • Microsoft Windows 2008 Server* *Microsoft-Certified server required	**Processor:** Intel Xeon @ 3 GHz, Dual Core processor **Memory**: 2 GB **Hard disk drive**: 50 GB of free space available	**Processor:** Intel Xeon @ 3 GHz, Quad Core processor **Memory:** 4 GB **Hard disk drive**: 100 GB of free space available
	Approximate allocation: • Application: 2 GB • DB: 10 GB • User Assets: 10 GB • Content: 20 GB	Approximate allocation: • Application: 4 GB • DB: 20 GB • User Assets: 20 GB • Content: 40 GB
Network Protocol	Static TCP/IP address	
DVD	A DVD is required for the installation	
Hard Disk Subsystem	• SCSI or SAS • RAID 1 or better • SATA/150 max 75 workstations • SATA/300 max 150 workstations	• SCSI or SAS • RAID 5 or better

Aggregate Reporting Server Requirements

The Aggregate Reporting server runs the LMS application in support of district level functionality, such as reports and data replication. The aggregate reporting server is required to run a Java-based web and application server, Apache Tomcat, the LMS services, a database server, and a data replication manager.

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Wide Area Network (WAN)

A WAN is used to synchronize (replicate) school databases to the district database used by the District Office. This synchronization is necessary for District Aggregate Reporting.

WAN considerations include:

- T-1 or equivalent is recommended for each school
- Mac platforms are not supported as district servers

Aggregate Reporting Configuration

The Aggregate Reporting Configuration builds on an existing School or Consolidated Schools model, and provides the capability to report on any school in the district.

Aggregate Reporting Configuration considerations include:

- T-1 or equivalent is recommended for each school
- Mac platforms are not supported as district servers
- User asset data is not replicated; therefore the aggregate server should not be considered a backup system

Aggregate Reporting Configuration (continued)

These specifications are intended strictly as a guideline. They were developed in an environment free from network congestion, resource contention, and aggressive security measures.

Network Platform	Minimum Requirement*
Network Operating System: • Microsoft Windows 2003 Server SP1* • Microsoft Windows 2003 Server R2* • Microsoft Windows 2008 Server* * Microsoft-Certified server required	**Processor**: [Dual CPU] Intel Quad Core @ 2 GHz processor **Memory:** 4 GB **Hard disk drive:** Varies depending on available disk space size. Contact your Pearson Sales Representative or Technical Specialist for more information. **Approximate allocation:** • Application: 6 GB • DB: 150 GB
Network Protocol	Static TCP/IP address
DVD	A DVD is required for the installation
Hard Disk Subsystem	• SCSI or SAS • RAID 5 or better
NOTE: Recommendations are for 100 schools with 1,500 students each (150,000 total students)	

Appendix

SuccessMaker and SuccessMaker Enterprise Single Server Deployment Guidelines

Configuration recommendations and guidelines for deploying both SuccessMaker products on a single server are detailed below. Most situations encountered in the pre-sales process are addressed. However, there always will be exceptions. In those instances, you must consult with a Pearson Sales Engineer (SE). Your SE will work with Pearson Deployment Technology, Development, and Product Management to recommend the best solution.

The SuccessMaker Release 1 software can reside on the same server and operate in parallel with SuccessMaker Enterprise. Use the recommended configuration requirements table on page 9 for server hardware requirements.

Use the following guidelines when planning for concurrent licenses:

- 100 MB switched supports up to 120 students combined concurrently across both product lines
- 1000 MB switched supports up to 240 students combined concurrently across both product lines
- Ask your SE to review any scenario with fewer than 120 concurrent licenses, with the minimum server requirements, in place of the recommended configuration
- Every scenario that exceeds 240 concurrent users must be reviewed and approved by your SE

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